

1/2

```

      *      20      *      40      *      60      *      80      *
AXMI-004 : -----SLLKGGFKKSTNRTCCLL-----KINIGGRGGRNSKEHDYLVKCNLSDANI--NH--ERFDKDAEITGTSVSELEGGHP--GGTA : 78
cry1Ac : -----DENPPIRECIPIYCLISNP-----EEVLVGGGRLLTG-----YEPIDISSTUTPLASEFV--GAGF : 56
cry1Ca : -----KKEH--HQNCIPYICLSNP-----EEVLLDGERYSTG-----VSSDISSTUTPLASNTVP--GGGT : 55
cry2Aa : -----ENYVLSGGRTTICDAVNVVAHDPPSFPEKSLDTIQKEVHWKR-----TDHSVYAPVSGTVSSFLKKVGSLL : 69
cry3Aa : -----KIRKGGGRKMPERSEHDITKTTLENEVPTNRYQYPLAETPNPTLEDLVYKEFLRHTADNTEALDSSITKDVQKQISVYGLGVVGFPPGGA : 95
cry1Ia : -----MKIKQODKHQSFSNAKV-----DKISTDSLKNEEDIELOINHEEDCLKHSE--YENVEFFVYASITGTGAGAGDGLTGVPPFAGQ : 81
cry7Aa : -----MHLDELGYDSKRTLEN-----SENYPFOKALSPSLKNNYQDFLSITERE--QPE--ALASGTAINTVSTGTATLSALGVPEASF : 80
      n      6      6

      *      100     *      120     *      140     *      160     *      180     *
AXMI-004 : -----HOFVFNQISFSGD-----SGNAFIEHVEELIDHPEZGAYNKAUSFLAGIQRHLETHIQLRNDENDIE--NSKAQGRKANYVLSFEQAVERS : 166
cry1Ac : -----VLGLAVDINSGIFPG-----SGDAFIVGLEELIHOSREDAQATSRDELSHLYQIAESFREHADPT--PALREERIORBENSAITTA : 144
cry1Ca : -----LVGLIDFPVGVGCG-----SQDAFIVGLEELIHOSREDAQATSRDELSHLYQIAESFREHADPT--PETRTIRIDRGRIDGLERD : 143
cry2Aa : -----CKRILSEFGIIFSGSTNLQDIDRETFQINRQNTDILARVNAEHLQANTRFNNQVQVDFLWPTON---PVPLSITSSVTHQQLFLMR : 160
cry3Aa : -----LVSYITNLTGFP-----SEDPKAFIEHVEELIDHPEZGAYNKAUSFLAGIQRHLETHIQLRNDENDIE--NSKAQGRKANYVLSFEQAVERS : 166
cry1Ia : -----VASLYSTHLEGGGRK--GKNQELIEHVEELIDHPEZGAYNKAUSFLAGIQRHLETHIQLRNDENDIE--NSKAQGRKANYVLSFEQAVERS : 166
cry7Aa : -----LTFNFKLHAGLEET--NGKIEDPHEFEALTIHQHETLHYRKAHAEDLGLSALDKYKALADHLGKOD---LPEALISATEIRINDSLEFFS : 171
      p      w      f6      E      61      46      n      a      L      G6      5      5      6

      *      200     *      220     *      240     *      260     *      280
AXMI-004 : -----HNSPAPNFEVPLIIVTAAAILHLHLRLRIVEFGKQUCFSZOKKRIHKKYKITYHEHPEGVNFKKGLERKKNKSSYQDVMYVSTFQNT : 261
cry1Ac : -----LPLRANQDQVPLISVYAAAILHLHLRLRIVEFGKQUCFSZOKKRIHKKYKITYHEHPEGVNFKKGLERKKNKSSYQDVMYVSTFQNT : 237
cry1Ca : -----LPSRISGFEVPLISVYAAAILHLHLRLRIVEFGKQUCFSZOKKRIHKKYKITYHEHPEGVNFKKGLERKKNKSSYQDVMYVSTFQNT : 236
cry2Aa : -----EPORQDQVPLIIVTAAAILHLHLRLRIVEFGKQUCFSZOKKRIHKKYKITYHEHPEGVNFKKGLERKKNKSSYQDVMYVSTFQNT : 249
cry3Aa : -----HNSPAPNFEVPLIIVTAAAILHLHLRLRIVEFGKQUCFSZOKKRIHKKYKITYHEHPEGVNFKKGLERKKNKSSYQDVMYVSTFQNT : 281
cry1Ia : -----LPSRISGFEVPLISVYAAAILHLHLRLRIVEFGKQUCFSZOKKRIHKKYKITYHEHPEGVNFKKGLERKKNKSSYQDVMYVSTFQNT : 265
cry7Aa : -----HNSPAPNFEVPLIIVTAAAILHLHLRLRIVEFGKQUCFSZOKKRIHKKYKITYHEHPEGVNFKKGLERKKNKSSYQDVMYVSTFQNT : 264
      6P      F      6      26      1L      5      QAAN      HL      64D      6      g      WG      6      y      Y      c      Y      q1      6      w      n      Rr      6

      *      300     *      320     *      340     *      360     *      380
AXMI-004 : -----LVIDLVALFPHDVTQTEITVAQLTREVYTPFLMFWNPK-----LHSVQLPSSEDMNATHTPFLMEFURELREYDWSVGC-----RN : 344
cry1Ac : -----LVIDLVALFPHDVTQTEITVAQLTREVYTPFLMFWNPK-----FDGSPFGSAQGLERSEPHLEDDNSIPYDAHRG-----Y : 313
cry1Ca : -----LVIDLVALFPHDVTQTEITVAQLTREVYTPFLMFWNPK-----LQSVQALETHVESSRIPPHLFDLNNHLYDWSVGC-----RN : 319
cry2Aa : -----LWVFXVSGHSLKYSLSLSSGAMVYASGSGPQQTQSTTAQNWPLYSLFQVNSHLLSGISGTLISITTFPGGPGSHTHSLNSARVNSG : 344
cry3Aa : -----LVIDLVALFPHDVTQTEITVAQLTREVYTPFLMFWNPK-----GYGITSNTEH--YHKKHLLFDVHERIQPHRPPQVYGC--NDSF : 364
cry1Ia : -----LVIDLVALFPHDVTQTEITVAQLTREVYTPFLMFWNPK-----LQSVQALETHVESSRIPPHLFDLNNHLYDWSVGC-----RN : 319
cry7Aa : -----LVIDLVALFPHDVTQTEITVAQLTREVYTPFLMFWNPK-----PDIGPSSORENTAHTHTHLYDDELYVSKYKAFSHEIQPDL : 350
      L      vid      a      5p      d      y      Ltr      t      R      phl      6      6      3

      *      400     *      420     *      440     *      460
AXMI-004 : -----LYFGGRVTSVHYGGLN-----LPSLYGREANQVLP--RDFTYFGPYKTLKSKPRLPQQPAPAPPFNLRSLEGVFHTPTCS-----FMYRERGQV : 431
cry1Ac : -----LYFGGRVTSVHYGGLN-----LPSLYGREANQVLP--RDFTYFGPYKTLKSKPRLPQQPAPAPPFNLRSLEGVFHTPTCS-----FMYRERGQV : 407
cry1Ca : -----LYFGGRVTSVHYGGLN-----LPSLYGREANQVLP--RDFTYFGPYKTLKSKPRLPQQPAPAPPFNLRSLEGVFHTPTCS-----FMYRERGQV : 406
cry2Aa : -----GVSSGLIGATLHHNHCSTVLPPLSTPFVRSWLDGTDREGVATSTNQTESFUTTLSLRCGAPSGARGSNHYFPDYFIRMSGVPLINMEDLT : 439
cry3Aa : -----MYGSGYSTPSISGSDIETSPYGNKSSPVQ--NLEFNGEKYTHAVANTHAWPVSAYVSGVTKVTFSGYNDQTDLEASTQYDSKRNVGAVW : 458
cry1Ia : -----MYGSGYSTPSISGSDIETSPYGNKSSPVQ--NLEFNGEKYTHAVANTHAWPVSAYVSGVTKVTFSGYNDQTDLEASTQYDSKRNVGAVW : 450
cry7Aa : -----FYGSAKHSFKKSEOSH--LYTIGYGTSGYISSGAYSFHGDYTKTAAAPSVVYPPYTONYG--VEQVEFYGVKGVHVR-----GDNKYDLYT : 437
      w      g

      *      480     *      500     *      520     *      540     *      560
AXMI-004 : -----DSFELFPFPPVGLPHKVYGHRIACHATFYKSG-----TPYLITGAMVSHRESAETHTDESHTIQLPLVAYONGSETVVRKGPFETGDDHPR : 523
cry1Ac : -----DSLDETPPMNNVPPRGFSHRLSEVSHRSGFSNSSVSIIRAPMSHRESAETHTDESHTIQLPLVAYONGSETVVRKGPFETGDDHPR : 501
cry1Ca : -----DSLDELFPFPPVGLPHKVYGHRIACHATFYKSG-----TPFLITGVVENDRSATLITHTDPERINQHPVYGVYVGGTSVITGFTGDDHPR : 498
cry2Aa : -----RPLHYNQIRHIESSGTTPGGARAYLVSVHNRKN-----NIYAANENGQMIHLAPEDYTGFIISSEHATOVNNQTRHISEKFGNQGDSLF : 525
cry3Aa : -----DSLDELFPFPPVGLPHKVYGHRIACHATFYKSG-----SRGTIPULITGAMVSHRESAETHTDESHTIQLPLVAYONGSETVVRKGPFETGDDHPR : 548
cry1Ia : -----DSLDELFPFPPVGLPHKVYGHRIACHATFYKSG-----VKALVYSHRESAETHTDESHTIQLPLVAYONGSETVVRKGPFETGDDHPR : 538
cry7Aa : -----DSLDELFPFPPVGLPHKVYGHRIACHATFYKSG-----DYDNATIPULITGAMVSHRESAETHTDESHTIQLPLVAYONGSETVVRKGPFETGDDHPR : 528
      ds      pp      p      hrl      w      3      n1      it      P      vk      v      qp      ftgGD      6

      *      580     *      600     *      620     *      640     *      660
AXMI-004 : -----TGPTFGDRIRVMAPISSORVRVRYASTDLOVYSINGTTLNIG-----HFKQDINLNTDSEGRITVSTSTPSFSAQSIIFRG--- : 608
cry1Ac : -----NSEDNIONRGYLLVPHFPSTSTRVRVRYASVTPHILNVNUGHS--SIFSNIVPAATSLDQSSDGGYFZANAFSSLSGHVGVNR--- : 591
cry1Ca : -----NTGDFVSLQVNTSPSTQVRLRIRYASDPAVIVLTGAASTVGGOVSVNHLQKHEIGELITKTRITDPSNPFSTRANPDITGSEOP : 593
cry2Aa : -----EQSNITARTYTRGCG--NSQWYLYRYSIGSTIRVPLNGRVYTVSH-----VNTTNDQVYDNGARSDNIGHIVASDNTNVTIDN--- : 608
cry3Aa : -----TEMESAATVYTPVYSYOKYARHYASTSQITFISLDGAPFNQY-----YFDKIDKEDTITVNSRNLASTFSTPELSSGNLQIQVIG-- : 634
cry1Ia : -----TNIGTFGRVWVAPPFAUSRVVRYASTDLOVYSINGKAINQG-----HFSADHPRGDDYKTRITGGRPFSTFSLDVQSTFTFG-- : 623
cry7Aa : -----GSTIGYGDIKATVPSLSORVRVRYADNVSGQFVYINDKTLTG-----KFQNTVEHIGEGKIDTYCSGYLYSTTITQFPDHPKPIHLS- : 618
      g      y      T      1      5

      *      680     *      700     *      720
AXMI-004 : -----IQAFEGVQVYDQIEFIVN----- : 629
cry1Ac : -----PSTAGVTHDPPFIPVATLEAEYNLRQAQVNAHLSINQLGKTEVTDYHIDOVSNLY : 653
cry1Ca : -----LFGAGSISGGLYDKEITLADATFEASDLRQAQVNAHLSINQLGKTEVTDYHIDOVSNLY : 660
cry2Aa : -----VTLNSGTFDDEDDFVHLPPLY----- : 633
cry3Aa : -----LSAGKQVYDQIEFIVN----- : 652
cry1Ia : -----AMNFSGSENYVYDQIEFIVN----- : 688
cry7Aa : -----DLSENSSYFDQIEFIVN----- : 680
      6d      iefgp

```

Fig. 1

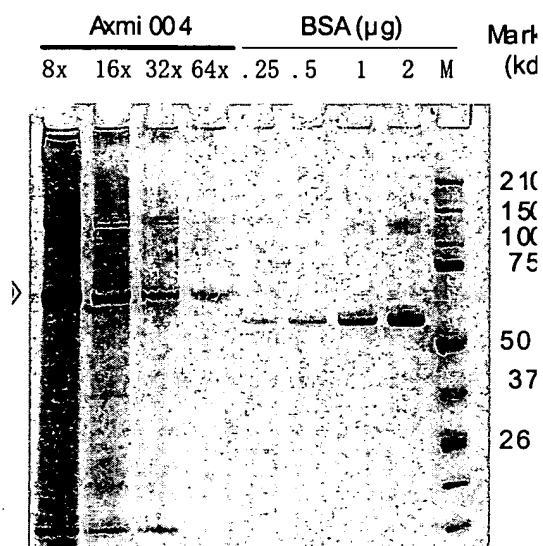


Fig. 2